



## PATENT ABSTRACTS OF JAPAN

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## (54) EPOXY RESIN CURING AGENT

## (57) Abstract:

**PURPOSE:** An epoxy resin curing agent having good compatibility with epoxy resins and a strong activity, obtained by the intermolecular dehydrohalogenation between a quat. phosphonium halide and a benzoic acid derivative and represented by the specified formula.

**CONSTITUTION:** This curing agent has, as an effective component, at least one compound belonging to a quat. ammonium benzoate and selected from among a benzoate compound of formula I (wherein  $R_1$ ,  $R_2$ ,  $R_3$  and  $R_4$  are each alkyl or benzyl,  $Y_1$  and  $Y_2$  are each H, halogen, alkyl, amino, nitro, carboxyl, hydroxyl or cyano), a benzoate compound of formula II (wherein  $R_5$  and  $R_6$  are each alkyl or benzyl,  $R_7$  is H or alkyl and  $Y_1$  and  $Y_2$  are as defined in formula I), and a benzoate compound of formula III (wherein  $R_8$  is H or methyl,  $R_9$  is alkyl or benzyl, and  $Y_1$  and  $Y_2$  are as defined in formula I).

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